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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,172	11/25/2003	Ronald Ralph Cairo	121242	4331
	7590	EXAMINER		
C/O ERNEST (G. CUSICK	OMGBA, ESSAMA		
SCHENECTAL	OAD, BLD. 43, ROON DY, NY 12345	VI 225	ART UNIT	PAPER NUMBER
			3726	
			MAIL DATE	DELIVERY MODE
		08/01/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applie	cation No.	Applicant(s)		
			0,172	CAIRO, RONAL	CAIRO, RONALD RALPH	
Office Action Summary		Exam	iner	Art Unit		
		Essan	na Omgba	3726		
 Period for	The MAILING DATE of this commun	nication appears or	the cover sheet	with the correspondence	address	
A SHO WHICH - Extens after S - If NO p - Failure Any rej	RTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N ions of time may be available under the provision: IX (6) MONTHS from the mailing date of this com- period for reply is specified above, the maximum s to reply within the set or extended period for reply ply received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In r munication. tatutory period will apply a v will, by statute, cause the	THIS COMMUI no event, however, may nd will expire SIX (6) M e application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	•	
Status						
2a)⊠ 1 3)□ S	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the pract	2b)∏ This action for allowance exc	is non-final. ept for formal ma	•	he merits is	
Dispositio	n of Claims					
5)	Claim(s) 1-3,6,7,9-14 and 16 is/are a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-3,6,7,9-14 and 16 is/are Claim(s) is/are objected to. Claim(s) are subject to restri	re withdrawn from	consideration.			
Applicatio	-					
10)□ T	he specification is objected to by the drawing(s) filed on is/are applicant may not request that any objected the cath or declaration is objected the oath or declaration is objected the specification.	: a) ☐ accepted o ection to the drawing g the correction is re	(s) be held in abey quired if the drawi	vance. See 37 CFR 1.85(a).	CFR 1.121(d).	
Priority ur	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Informa	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (lation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-3, 6, 7, 9-14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of Farfaglia (US Patent 4,085,664).

With regards to claims 1, 6, 7, 9, 10 and 16, Applicant, at pages 1 and 2 of the specification to be known as AAPA, discloses mandrels of varying diameters to accommodate changes in diameter of components fabricated thereon. AAPA does not disclose a core mandrel with a plurality of adapter sleeves to provide mandrels of varying outside diameters. However Farfaglia teaches a core mandrel 41 with a kit of adapter mandrel sleeves 47 to provide mandrels with varying diameters, the mandrel sleeves being interchangeably engageable with the core mandrel (col. 1, lines 6-15, 26-48, col. 2, lines 7-29, col. 6, lines 4-8 and 63-68, and col.7, lines 1-16), with interlocking mechanism in the form of lug-and-slot type locking devices, wherein the interlocking mechanism could be formed on one of the core mandrel and the selected one of the adapter sleeve (col. 2, lines 27-47). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have substituted the plurality of mandrels with varying outside diameters of AAPA with a core mandrel and a plurality of adapter sleeves, in light of the teachings of Farfaglia, in order to economically provide mandrels of varying outside diameters. Applicant should note that

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the mandrel sleeves of Farfaglia have an inside diameter sized to engage the core mandrel outside diameter across an entire width of the adapter sleeve. Further, even assuming that each of the adapter sleeves taught by Farfaglia does not have an inside diameter sized to engage the core mandrel outside diameter across an entire width of the adapter sleeves, it is noted that such a design is an obvious matter of design choice, as long as the adapter sleeves are properly removably secured around the core mandrel and coaxial alignment between the adapter sleeves and the core mandrel is assured. Regarding the recitation of the sleeves material and their thermal expansion rate as compared to the core mandrel, Applicant should note that it is within the general knowledge of one of ordinary skill in the art to have used steel adapter sleeves.

Furthermore it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. See also *Ballas Liquidating Co. v.*Allied industries of Kansas, *Inc.* (DC Kans) 205 USPQ 331.

For claims 2, 3 and 11-14, Applicant should note that it is within the general knowledge of one of ordinary skill in the art to provide appropriate and effective interlocking mechanism between the core mandrel and the adapter sleeves.

Response to Arguments

3. Applicant's arguments filed May 23, 2008 have been fully considered but they are not persuasive.

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4. In response to Applicant's argument that Farfaglia is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, the examiner submits that Farfaglia is reasonably pertinent to the particular problem with which Applicant was concerned with, namely quickly modify the outside diameters of forming mandrels without relying on a stock of mandrels having different outside diameters, but using a basic mandrel having a nominal diameter that can be outfitted with adapter sleeves having different outside diameters, this solution that eliminates the time consuming operation of replacement of the mandrels is also a cost saving solution since it is less expensive to produce a core mandrel with adapter sleeves of different outside diameters than to produce a kit of mandrels having different outside diameters.

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In response to Applicant's argument that Farfaglia discloses a mandrel structure with a core 41 and a tubular sleeve 47 which is spaced from the core 41 and as such teaches away from the recited feature of the claimed invention, namely, "sleeves each having an inside diameter sized to engage the core mandrel outside diameter across an entire width of the adapter sleeves", the examiner submits that the recitation "sleeves each having an inside diameter sized to engage the core mandrel outside diameter across an entire width of the adapter sleeves" amounts to an obvious matter of design choice wherein no stated problem is solved or unexpected results obtained in designing

the adapter sleeves such that they each have "an inside diameter sized to engage the core mandrel outside diameter across an entire width of the adapter sleeves" versus the design taught by Farfaglia has long as the adapter sleeves are properly removably secured around the core mandrel and coaxial alignment between the adapter sleeves and the core mandrel is assured.

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In response to Applicant's argument that Farfaglia does not teach, suggest or disclose the interlocking mechanism formed on one of the core mandrel and the selected one of the adapter sleeve, the examiner respectfully disagrees. Farfaglia specifically teaches that "Any suitable means can be employed for removably securing the mandrel sleeve (adapter sleeve) around the basic mandrel (col.2, lines 27-29). Further Farfaglia teaches that "Other examples of suitable attaching means include at least one countersunk fastening means such as a bolt in the mandrel sleeve that can be attached to respective threaded portion in the basic mandrel, threaded portions on the interior of one end of the mandrel sleeve which can interlock with corresponding threaded portions on a portion of the basic mandrel mounting sleeve" (col. 2, lines 34-41). The examiner submits that those examples of suitable means correspond to an "interlocking mechanism formed on one of the core mandrel and the selected one of the adapter sleeve".

In view of the above remarks, the examiner maintains that a *prima facie* case of obviousness has been established in the instant application.

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Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Essama Omgba whose telephone number is (571) 272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Essama Omgba/ Primary Examiner, Art Unit 3726

eo July 31, 2008